

## THE AMERICAS DISTRIBUTOR OF COESFELD

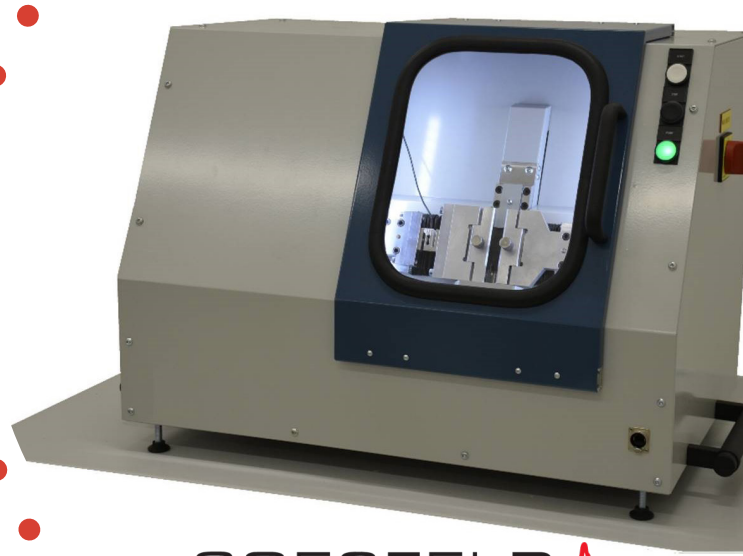
# TESTING INSTRUMENTS

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Test Fatigue Performance in your own lab using Endurica protocols running on Coesfeld instruments. Our partnership with instrument producer Coesfeld GmbH & Co. KG offers you proven, fully supported testing systems that are specialized for engineering analysis of elastomer durability.

## BENEFITS

- Fully automated test execution with high test productivity.
- High test reliability via built-in quality control and noise minimization strategies.
- Full compatibility with modern durability simulation codes Endurica CL™ and fe-safe/Rubber™.
- Easy-to-use, works-every-time test setup – take the guess-work out of specifying test conditions.
- Fully supported by the world's leading experts in elastomer durability and in testing instrumentation for the rubber industry.



COESFELD  
MATERIALTEST

## Intrinsic Strength Analyser

- Measures cutting forces on an instrumented blade of controlled sharpness.
- Indicates the threshold fracture mechanical strength of a polymer network (i.e. the mechanical fatigue threshold) with a test that runs in an hour.
- Based on the Lake and Yeoh procedure.
- Intuitive operation. Automated control, data acquisition and reporting.
- Supported in the Americas by the world leaders in elastomer durability testing methods.

 2020 TIBBETTS AWARD WINNER

# Endurica

Get Durability Right®



## Tear & Fatigue Analyser

- Measures crack growth under dynamic loading cycles.
- Produces the crack growth rate curve as a function of applied tearing energy.
- Produces parameters for describing effects of strain-crystallization on crack growth.
- Includes protocols for both fully relaxing ( $R=0$ ) and nonrelaxing ( $R>0$ ) conditions.
- 50% less data scatter than prior art methods.

## Instrumented Chip & Cut Analyser

- Measures chip and cut resistance of rubber compounds under cyclic impact loadings.
- Highly instrumented to enable control and measurement of forces and displacements during impact to mimic conditions experienced in demanding applications.
- The instrument can be also be operated in full contact mode as a friction and wear measurement device.

## C-SUITE INSIGHTS

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### PLUG AND PLAY

Go with the solution that works right out of the box and integrates with your CAE workflows.

### HIGH PRODUCTIVITY

Traditional open-duration fatigue tests mean lack of control over testing schedule. Use our finitely-scoped methods to take back control of your testing schedule.

### LOW NOISE

Endurica testing methods significantly reduce scatter and get more reliable data.

### AUTOMATE YOUR TESTING

Free up lab techs with fully automated test execution.

### QUALITY

Go with the global market leader for vision-based crack growth testing systems: Coesfeld.

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